

EROSION & SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION

PURCELLVILLE FIRE AND RESCUE (MCPI# 452-16-6477) CONSISTS OF THE CONSTRUCTION OF ONE BUILDING DESIGNATED AS FIRE AND RESCUE. THE TOTAL SITE AREA IS 6.05 ACRES. THE TOTAL DISTURBED AREA IS 5.44 ACRES.

EXISTING SITE CONDITIONS

THE PROPOSED SITE IS OPEN FIELD THAT HAS NATIVE FIELD GRASS AND TREES WITH UNDISTURBED SOILS. THE SITE HAS GENTLE SLOPES OF 2 TO 7%. THE SITE HAS TWO DRAINAGE DIVIDES THAT DRAIN TO TWO SEPARATE DITCHES. THE TWO DITCHES DRAIN TO TWO SEPARATE CULVERTS UNDER EXISTING RTE#772.

ADJACENT AREAS

THE PROPERTY IS BOUNDED TO THE WEST BY ROUTE 772, TO THE NORTH BY ROUTE #7, TO THE SOUTH/EAST BY PURCELLVILLE VILLAGES.

OFF-SITE AREAS

THERE WILL BE A FORCE MAIN AND WATERLINE THAT WILL CONNECT TO THE ADJACENT SCHOOLS UTILITIES.

SOILS

THE PREDOMINANT SOILS ON THE SITE ARE 17B AND 23B.

CRITICAL EROSION AREAS

THERE ARE NO CRITICAL EROSION AREAS.

EROSION AND SEDIMENT CONTROL PRACTICES

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. THE MINIMUM STANDARDS OF THE VESCH SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE. CONTROL OF EROSION AND SEDIMENTATION FOR THIS SITE SHALL BE ACHIEVED BY INSTALLING THE FOLLOWING AT THE LOCATIONS SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN SHEETS, PHASE I AND II:

1. TEMPORARY STONE CONSTRUCTION ENTRANCE - 3.02
2. SUPER SILT FENCE - 3.05
3. STORM DRAIN INLET PROTECTION - 3.07
4. CULVERT INLET PROTECTION - 3.08
5. TEMPORARY DIVERSION DIKE - 3.09
6. TEMPORARY SEDIMENT BASIN - 3.14
7. OUTLET PROTECTION - 3.18
8. RIPRAP - 3.19
9. ROCK CHECK DAM - 3.20
10. TEMPORARY SEEDING - 3.31
11. PERMANENT SEEDING - 3.32
12. SOIL STABILIZATION BLANKETS AND MATTING - 3.36

*THESE METHODS HAVE BEEN CHOSEN BECAUSE THEY ARE THE APPROPRIATE USE IN THIS SCENARIO.

MANAGEMENT STRATEGIES

- PHASE I**
1. BUILD THE CONSTRUCTION ENTRANCE WITH WASH RACK AT THE DESIGNATED PROPOSED SITE ENTRANCE.
 2. CLEAR AND GRUB THOSE AREAS NECESSARY TO PERMIT THE CONSTRUCTION AND/OR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL MEASURES.
 3. INSTALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES. ALL EARTHEN STRUCTURES SUCH AS DAMS, DIKES, SEDIMENT BASINS, SEDIMENT TRAPS, AND DIVERSIONS MUST BE STABILIZED IMMEDIATELY AFTER. INSTALLATION WITH SEED AT 50 LBS. / AC. AND STRAW AT 2 TONS / AC.
 4. PERMANENTLY SEED ALL DENUDED AREAS.
- PHASE II**
1. ROUGH GRADE THE SITE. THE SEDIMENT BASIN IS TO REMAIN FUNCTIONAL THROUGHOUT THE REMAINDER OF CONSTRUCTION.
 2. PLACE SUBBASE MATERIAL IN ALL TRAVEL WAYS AND PARKING LOT AREAS. THE SITE SUPERINTENDENT SHALL COORDINATE WITH THE LOUDOUN COUNTY FIELD INSPECTOR DURING CONSTRUCTION TO MAKE SURE THAT ALL E&S MEASURES REMAIN FUNCTIONAL.
 3. INSTALL INLET & OUTLET PROTECTION.
 4. PERMANENTLY SEED ALL DENUDED AREAS.
 5. WITH THE APPROVAL OF THE LOUDOUN COUNTY E&S INSPECTOR, AND TOWN OF PURCELLVILLE, REMOVE SEDIMENT BASIN AND COMPLETE THE POND GRADING AND INSTALLATION OF OUTFALL STRUCTURE.
 6. REMOVE ALL OTHER E&S CONTROL MEASURES AFTER AREA IS STABILIZED AND WITH THE APPROVAL OF LOUDOUN COUNTY E&S INSPECTOR AND TOWN OF PURCELLVILLE

PERMANENT STABILIZATION

ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. SEEDING SHALL BE DONE USING A SEED APPROVED BY THE MARYLAND OR VIRGINIA DEPARTMENT OF AGRICULTURE ACCORDING TO STANDARD AND SPECIFICATION 3.32, PERMANENT SEEDING, OF THE HANDBOOK.

SWM/BMP NARRATIVE

SEE SHEET C-120 FOR NARRATIVE

MAINTENANCE

IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

1. SEDIMENT BASINS WILL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT BUILDUP REACHES ONE FOOT BELOW THE DEWATERING DEVICE OR AS DESIGNED, WHICHEVER IS GREATER. THE ENTITY SIGNING THE GRADING PERMIT APPLICATION WILL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL SEDIMENT BASINS.
2. SEDIMENT TRAPS WILL BE CHECKED REGULARLY FOR SEDIMENT CLEANOUT.
3. THE OUTLET PROTECTIONS WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF THE GRAVEL IN CLOGGED BY SEDIMENT, IT SHALL BE REMOVED AND CLEANED OR REPLACED.
4. THE SILT FENCE BARRIER WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER.
5. THE SEEDING AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEED AS NEEDED.

STANDARD NOTES:

A COPY OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, CURRENT ADDITION AS WELL AS A COPY OF THE APPROVED PLANS WILL BE MAINTAINED ON SITE AT ALL TIMES.

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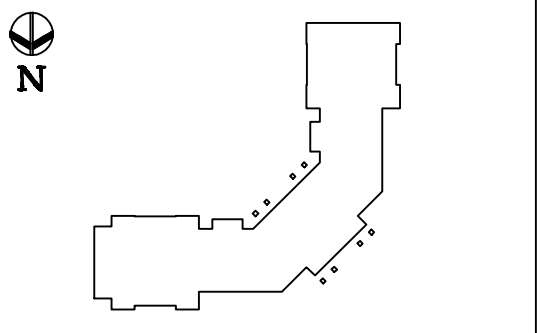
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PURCELLVILLE FIRE AND RESCUE

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PURCELLVILLE, VIRGINIA

EROSION & SEDIMENT CONTROL DETAILS & NARRATIVE



REVISIONS:

ISSUES:

09-26-07 BID SET

STAMP AND SEAL:

DATE: 09-26-07 **SCALE:** AS NOTED

PROJECT NO. 0611

SHEET: C-119